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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

1

of

1

Application Number

Filing Date

Herewith

First Named Inventor

Steve Zhihua Zeng

Art Unit

Examiner Name

Attorney Docket Number

1456-0300630

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/CL/		Sabine Kroner and Giovanni Ramponi, "Edge Preserving Noise Smoothing with an Optimized Cubic Filter," Univ. of Trieste, Trieste, Italy, 4 pp	
/CL/		Jaemin Kim and John W. Woods, "Spatiotemporal Adaptive 3-D Kalman Filter for Video," 12 pp.	
/CL/		Julia J. Liu, "Applications of Wiener Filtering in Image and Video De-noising," ECE497KJ Course Project, 15 pp.	
/CL/		K. Jostschulte et al., "A Subband Based Spatio-Temporal Noise Reduction Technique for Interlaced Video Signals," 2 pp.	

Examiner  
Signature

/Christopher Lavin/

Date

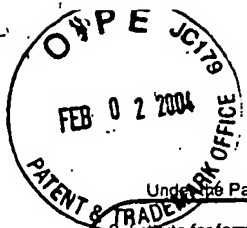
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PTO/SB/088 (04-03)

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Application Number	10/673,612
Filing Date	September 29, 2003
First Named Inventor	Steve Zhihua Zeng
Art Unit	2622
Examiner Name	
Attorney Docket Number	1459.0300630

Sheet	1	of	2
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/CL/	AA	Pedro Assuncao and Mohammad Ghanbari, "Rate Reduction Techniques for MPEG-2 Video Bit Streams," SPIE Vol. 2952, April 1996, 10 pp.	
	BB	Jae-Young Pyun, "QoS Provisioning for Video Streaming over IEEE 802.11 Wireless LAN," (abridged) IEEE Conference in Consumer Electronics, 6/16/2003, 3 pp. [online] Retrieved from the Internet 7/8/2003 at URL	
	CC	Krisda Lengwehasatit and Antonio Ortega, "Computationally Scalable Partial Distance Based Fast Search Motion Estimation," Univ. of Southern California, 4 pp., (date unknown)	
	DD	Manoj Aggarwal and Ajai Narayan, "Efficient Huffman Decoding," 2000 IEEE, 0-7803-6297-7, pp. 936-939.	
	EE	Peng Yin et al., "Video Transcoding by Reducing Spatial Resolution," Princeton University, Princeton, NJ, 4 pp., 2000	
	FF	Zhigang Fan and Ricardo de Queiroz, "Maximum Likelihood Estimation of JPEG Quantization Table in the Identification of Bitmap Compression History," Xerox Corporation, Webster, NY, 4 pp. (date unknown)	
	GG	Luis Ducla Soares et al., "Influence of Encoder Parameters on the Decoded Video Quality for MPEG-4 Over W-CDMA Mobile Networks," NTT DoCoMo, Inc. technical paper, 4 pp. (date unknown)	
	HH	Thomas Wiegand et al., "Long-Term Memory Motion-Compensated Prediction for Robust Video Transmission," in Proc. ICIP2000, 4 pp.	
	II	P. Greg Sherwood et al., "Efficient Image and Channel Coding for Wireless Packet Networks," Univ. of CA, San Diego, CA, Dept. of ECE; 4 pp. (date unknown)	
↓	JJ	Donghoon Yu et al., "Fast Motion Estimation for Shape Coding in MPEG-4," 2003 IEEE Transactions on Circuits and Systems for Video Technology, Vol. 13, No. 4, April 2003, pp. 358-363	

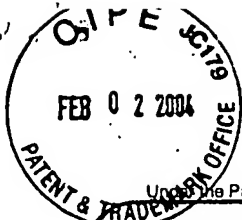
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/CL/	KK	Shine M. Thomas, Rahul Kumar & Vasudha Bhat, "An Efficient Implementation of MPEG-2 (BC1) Layer 1 & Layer 2 Stereo Encoder on Pentium-III Platform", Sasken Communication Technologies Limited, Banalore, India, pp. 1-10.	
	LL		
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	RR		
	SS		
	TT		

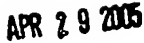
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Attorney Docket Number: 1459-0300630

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Examiner Initials *	Cite No.1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office 3	Number	Kind Code 2 (if known)			
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PUBLICATIONS			
Examiner Initials *	Cite No.1	Title of Publication	Date of Publication of Cited Document MM-DD-YYYY

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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First Named Inventor	Steve Zhihua ZENG
Art Unit	2622
Examiner Name	Unknown
Attorney Docket Number	1459-0300630 (1459-VIXS063)

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/CL/	AA	US- 5,027,203	06-25-1991	Samad, et al.	
	AB	US- 5,115,812	05-26-1992	Sano, et al.	
	AC	US- 5,475,434	12-12-1995	Kim	
	AD	US- 5,602,589	02-11-1997	Vishwanath, et al.	
	AE	US- 5,635,985	06-03-1997	Boyce, et al.	
	AF	US- 5,644,361	07-01-1997	Ran, et al.	
	AG	US- 5,652,749	07-29-1997	Davenport, et al.	
	AH	US- 5,732,391	03-24-1998	Fiocca	
	AI	US- 5,737,020	04-07-1998	Hall, et al.	
	AJ	US- 5,740,028	04-14-1998	Sugiyama, et al.	
	AK	US- 5,940,130	08-17-1999	Nilsson, et al.	
	AL	US- 5,996,029	11-30-1999	Sugiyama, et al.	
	AM	US- 6,005,623	12-21-1999	Takahashi, et al.	
	AN	US- 6,005,624	12-21-1999	Vainsencher	
	AO	US- 6,014,694	01-11-2000	Aharoni, et al.	
	AP	US- 6,040,863	03-21-2000	Kato	
	AQ	US- 6,081,295	06-27-2000	Adolph, et al.	
	AR	US- 6,141,693	10-31-2000	Perlman, et al.	
	AS	US- 6,144,402	11-07-2000	Norsworthy, et al.	

**FOREIGN PATENT DOCUMENTS**

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
/CL/	AT	EP 0661826 A2	07-05-1995	IBM		
↓	AU	EP 0739138 A2	10-23-1996	Kalmanek, et al.		
	AV	EP 0805599 A2	11-05-1997	Oki Electric Industry		
	AW	EP 0855805 A2	07-29-1998	Sharp KK		
	AX	EP 0896300 B1	02-10-1999	Matsushita Electric		
	AY	EP 0901285 A1	02-10-1999	Yamauchi		

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Application Number	10/673,312
Filing Date	09/29/2003
First Named Inventor	Steve Zhihua ZENG
Art Unit	2622
Examiner Name	Unknown
Attorney Docket Number	1459-0300630 (1459-VIXS063)

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/CL/	AZ	US- 6,167,084	12-26-2000	Wang, et al.	
	BA	US- 6,182,203	01-30-2001	Simar, Jr., et al.	
	BB	US- 6,215,821	04-10-2001	Chen	
	BC	US- 6,219,358	04-17-2001	Pinder, et al.	
	BD	US- 6,222,886 B1	04-24-2001	Yogeshwar	
	BE	US- 6,236,683	05-22-2001	Mougeat, et al.	
	BF	US- 6,263,022	07-17-2001	Chen, et al.	
	BG	US- 6,300,973	10-09-2001	Feder, et al.	
	BH	US- 6,307,939 B1	10-23-2001	Vigarie	
	BI	US- 6,314,138	11-06-2001	Lemaguet	
	BJ	US- 6,323,904	11-27-2001	Knee	
	BK	US- 6,366,614	04-02-2002	Plan, et al.	
	BL	US- 6,385,248	05-07-2002	Pearlstein, et al.	
	BM	US- 6,480,541	11-12-2002	Girod, et al.	
	BN	US- 6,526,099	02-25-2003	Chistopoulos, et al.	
	BO	US- 6,259,741	07-10-2001	Chen, et al.	
	BP	US- 6,584,509	06-24-2003	Putzolu	
↓	BQ	US- 6,724,726	04-20-2004	Coudreuse	
↓	BR	US- 6,748,020	06-08-2004	Eifrig, et al.	

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/CL/	BS	EP 0955607 A2	11-10-1999	Sarnoff Corp.		
	BT	EP 1032214 A2	08-30-2000	Matsushita Electric		
	BU	WO 01/95633 A2	12-13-2001	Gen Instrument Group		
	BV	WO 02/080518 A2	10-10-2002	Laksono		
↓	BW	JP 07-210670 A	08-11-1995	Fuji Xerox Ltd.		
↓	BX	EP 1087625 A2	03-28-2001	Sostawa et al.		

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/CL/	BY	US- 6,438,168	08-20-2002	Arye	
	BZ	US- 2001/0026591 A1	10-04-2001	Keren, et al.	
	CA	US- 2002/110193 A1	08-15-2002	Kyoon, et al.	
	CB	US- 2002/138259 A1	09-26-2002	Kawahara	
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	CD	US- 2002/106022 A1	08-08-2002	Takahashi, et al.	
	CE	US- 2003/0152148 A1	08-14-2003	Laksono	
	CF	US- 4,866,395	09-12-1989	Hosteller	
	CG	US- 6,549,561	04-15-2003	Crawford	
	CH	US- 5,093,847	03-03-1992	Cheng	
	CI	US- 5,253,056	10-12-1993	Puri	
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	CO	US- 2003/0093661 A1	05-15-2003	Loh, et al.	
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/CL/	CP	YU, Donghoom, et al., "Fast Motion Estimation for Shape Coding in MPEG-4," IEEE Transactions on Circuits and Systems for Video Technology. Vol. 13, No. 4, 2003 IEEE, April 2003, pp. 358-363	
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	CR	YOUN, Jeongnam et al., "Video Transcoding For Multiple Clients," Proceedings of the SPIE, Bellingham, VA, vol. 4067, XP008012075, pp. 76-85, University of Washington, Seattle, WA	
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	CT	TAKAHASHI, Kuniaki, et al., "Motion Vector Synthesis Algorithm for MPEG2-to-MPEG4 Transcoder," Proceedings of the SPIE, Bellingham, VA, vol. 4310, Sony Corporation, XP008000078, pp. 387-882, 2001 SPIE	
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	CW	SHERWOOD, P. Greg et al., "Efficient Image and Channel Coding for Wireless Packet Networks," University of California, La Jolla, California	
	CX	ASSUNCAO, Pedro et al., "Rate Reduction Techniques for MPEG-2 Video Bit Streams," SPIE, Vol. 2952, April 1996, pp. 450-459, University of Essex, Colchester, England	
↓	CY	YIN, Peng et al., "Video Transcoding by Reducing Spatial Resolution," Princeton University, 2000, Princeton, New Jersey	

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		Application Number	10/673,312
		Filing Date	09/29/2003
		First Named Inventor	Steve Zhihua ZENG
		Art Unit	2622
		Examiner Name	Unknown
Sheet 5	of 8	Attorney Docket Number	1459-0300630 (1459-VIXS063)

NON PATENT LITERATURE DOCUMENTS			
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/CL/	CZ	SHANABLEH, Tamer et al., "Heterogeneous Video Transcoding to Lower Spatio-Temporal Resolutions and Difference Encoding Formats," IEEE Transactions on Multimedia, Vol. 2, No. 2, June 2000, pp. 101-110, Engineering and Physical Sciences Research Council, Colchester, U.K.	
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		Application Number	10/673,612
		Filing Date	09/29/2003
		First Named Inventor	Steve Zhihua ZENG
		Art Unit	2622
		Examiner Name	Unknown
Sheet 6	of 8	Attorney Docket Number	1459-0300630 (1459-VIXS063)

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/CL/	DJ	FUKUNAGA, Shigeru et al., "MPEG-4 Video Verification Model Version 16.0" International Organization for Standardization: Coding of Moving Pictures and Audio, Vol. N3312, March 2000, pp. 1-380, XP000861688,	
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	DM	LIU, Julia J., "ECE497KJ Course Project: Applications of Wiener Filtering In Image and Video De-Noising," pp. 1-15. May 21, 1997	
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	DP	TOURAPIS, Alexis et al. "New Results on Zonal Based Motion Estimation Algorithms - Advanced Predictive Diamond Zonal Search," 2001 IEEE, pp. V 183-V 186. The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong	
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↓	DS	HASSANZADEGAN, Hooman et al., "A New Method for Clock Recovery in MPEG Decoders," pp. 1-8, Basamad Negar Company, Tehran, Iran	

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		Filing Date	09/29/2003
		First Named Inventor	Steve Zhihua ZENG
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	EB	"CONEXANT Products & Tech Info: Product Briefs: CX22702," 2000-2002 Conexant Systems, Inc. access on 04/20/2001	
✓	EC	"TDC: Components for Modems & Digital Infotainment: Direct Broadcast Satellite Chipset," 2001 Telecom Design Communications Ltd., U.K., <<http://www ldc.co.uk/modmulti/settop/index.htm>>, access on 04/20/2001	

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		First Named Inventor	Steve Zhihua ZENG
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/CL/	ED	"White Paper: Super G: Maximizing Wireless Performance," March 2004, Atheros Communications, Inc., pp. 1-20, Document No. 991-00006-001, Sunnyvale, California	
	EE	KWOK, Y.K. et al., "Efficient Multiple Access Control Using a Channel-Adaptive Protocol for a Wireless ATM-Based Multimedia Services Network," March 29, 2000, Computer Communications 24(2001) 970-983, University of Hong Kong, Hong Kong, PRC	
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	EI	"ICE Fyre Semiconductor: IceFyre 5-GHz OFDM Modem Solution," September 2001, pp. 1-6, ICEFYRE: Rethink Wireless, IceFyre Semiconductor, Inc.	
	EJ	POZAR, David M., "Theory and Design of Ferrimagnetic Components," 1990, pp. 529, Microwave Engineering, Addison-Wesley Publishing Company, Inc.	
	EK	"Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: High-Speed Physical Layer in the 5 GHz Band," 1999 IEEE, pp. 1-83, Supplement to IEEE Standard fo rInformation Technology, IEEE Std 802.11a-1999, LAN/MAN Standards Committee	
	EL	CICIORA, Walter S., "Cable Television in the United States: An Overview," May 25, 1995, pp. 1-90, Cable Television Laboratories, Inc., Louisville, Colorado	

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number	10673612
Filing Date	2003-09-29
First Named Inventor	Steve ZENG
Art Unit	2624
Examiner Name	Bhaves M. MEHTA
Attorney Docket Number	1459-0300630

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